WHAT IS CLAIMED IS:

- 1. A heterogeneous device, comprising:
 - a substrate;
- a high voltage well of a first circuit device defined in the substrate; and a first low voltage device of a second circuit device defined in the substrate.
- 2. The device of claim 1, further comprising a photodiode defined in the substrate.
- 3. The device of claim 1, further comprising at least one microelectomechanical system-based element defined in the substrate.
- 4. The device of claim 1, wherein the substrate comprises a layer of silicon.
- 5. The device of claim 4, wherein the layer of silicon comprises p-type silicon.
- 6. The device of claim 1, wherein the substrate comprises a silicon-on-insulator wafer comprising a single-crystal-silicon layer, a substrate and an insulator layer therebetween.
- 7. The device of claim 6, wherein the single-crystal-silicon layer comprises p-type silicon.
- 8. The device of claim 1, further comprising a second low voltage well of the second circuit device defined in the substrate.
- 9. The device of claim 8, further comprising a field oxide layer over at least part of each of the high voltage well, the first low voltage well and the second low voltage well.
- 10. The device of claim 9, further comprising a polysilicon gate associated with each of the high voltage well, the first low voltage well and the second low voltage well.

- 11. The device of claim 10, further comprising:
 - a P-body defined in the high voltage well of the first circuit device;
- an N+ source/drain defined in each of the P-body, the high voltage well and the first low voltage well of the second circuit device; and
- a P+ source/drain in each of the P-body and the second low voltage well of the second circuit device.
 - 12. The device of claim 11, further comprising:
- a passivation oxide layer over at least the field oxide layer and the polysilicon gates;
- a plurality of vias through the passivation oxide layer; and a plurality of contacts, each of the contacts extending through the vias and contacting at least one of the sources/drains.
 - 13. A heterogeneous device, comprising:
 - a substrate; and
 - a plurality of heterogeneous circuit devices defined in the substrate.
- 14. The device of claim 13, wherein the plurality of heterogeneous circuit devices comprises at least one complementary metal oxide semiconductor] transistor and at least one double-diffused metal oxide semiconductor] transistor.
- 15. The device of claim 13, further comprising a photodiode defined in the substrate.
- 16. The device of claim 13, further comprising at least one microelectomechanical system-based element defined in the substrate.
- 17. The device of claim 13, wherein the substrate comprises a layer of silicon.
- 18. The device of claim 17, wherein the layer of silicon comprises p-type silicon.
- 19. The device of claim 13, wherein the substrate comprises a silicon-on-insulator wafer comprising a single-crystal-silicon layer, a substrate and an insulator layer therebetween.

20. The device of claim 19, wherein the single-crystal-silicon layer comprises p-type silicon.